RAW SEQUENCE LISTING DATE: 05/31/2001
PATENT APPLICATION: **US/09/675,828** TIME: 11:01:16

Input Set : **C:\PAOLA\09675828.txt**
Output Set: **C:\CRF3\05312001\I675828.raw**

SEQUENCE LISTING

(1) GENERAL INFORMATION:
(i) APPLICANT: Thomas J. Cummins, Susan M. Atwood
Lynn Bergmeyer, John B. Findlay
John W.H. Sutherland, JoAnne H. Kerschner
(ii) TITLE OF INVENTION: DIAGNOSTIC COMPOSITIONS, ELEMENTS,
METHODS AND TEST KITS FOR
AMPLIFICATION AND DETECTION OF TWO
OR MORE TARGET DNA'S USING PRIMERS
W--> **HAVING MATCHED MELTING TEMPERATURES**
(iii) NUMBER OF SEQUENCES: 65
(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Eastman Kodak Company, Patent Legal Staff
(B) STREET: 343 State Street
(C) CITY: Rochester
(D) STATE: New York
(E) COUNTRY: U.S.A.
(F) ZIP: 14650 - 2201
(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Diskette, 3.5inch, 1.44 MB storage (IBM)
(B) COMPUTER: IBM PS/2
(C) OPERATING SYSTEM: MS-DOS Version 3.3
(D) SOFTWARE: PC-8 (Word for Windows)
(vi) CURRENT APPLICATION DATA:
C--> **(A) APPLICATION NUMBER: US/09/675,828**
C--> **(B) FILING DATE: 29-Sep-2000**
(C) CLASSIFICATION:
(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: 08/062,023
(B) FILING DATE:
(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Tucker, J. Lanny
(B) REGISTRATION NUMBER: 27,678
(C) REFERENCE/DOCKET NUMBER: 67271A
(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: (716) 722-9332
(B) TELEFAX: (716) 477-4646
(2) INFORMATION FOR SEQ ID NO: 1:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 28 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
W--> **(ii) MOLECULE TYPE: Primer for HIV-I DNA**
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE:

ENTERED

RAW SEQUENCE LISTING DATE: 05/31/2001
PATENT APPLICATION: US/09/675,828 TIME: 11:01:16

Input Set : C:\PAOLA\09675828.txt
Output Set: C:\CRF3\05312001\I675828.raw

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     63      (i) SEQUENCE CHARACTERISTICS:
     64           (A) LENGTH: 28 nucleotides
     65           (B) TYPE: Nucleic acid
     66           (C) STRANDEDNESS: Single
     67           (D) TOPOLOGY: Linear
W--> 68     (ii) MOLECULE TYPE: Primer for HIV-I DNA
     69    (iii) HYPOTHETICAL: No
     70     (iv) ANTI-SENSE: No
     71     (vi) ORIGINAL SOURCE:
     72    (vii) IMMEDIATE SOURCE:
     73      (x) PUBLICATION INFORMATION:
     74     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
     76 TTCCTGCTAT GTCACTTCCC CTTGGTTC  28
     78 (2) INFORMATION FOR SEQ ID NO: 3:
     79      (i) SEQUENCE CHARACTERISTICS:
     80           (A) LENGTH: 28 nucleotides
     81           (B) TYPE: Nucleic acid
     82           (C) STRANDEDNESS: Single
     83           (D) TOPOLOGY: Linear
W--> 84     (ii) MOLECULE TYPE: Primer for HIV-I DNA
     85    (iii) HYPOTHETICAL: No
     86     (iv) ANTI-SENSE: No
     87     (vi) ORIGINAL SOURCE:
     88    (vii) IMMEDIATE SOURCE:
     89      (x) PUBLICATION INFORMATION:
     90     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
     92 TAGCACCCAC CAGGGCAAAG AGAAGAGT  28
     96 (2) INFORMATION FOR SEQ ID NO: 4:
     97      (i) SEQUENCE CHARACTERISTICS:
     98           (A) LENGTH: 28 nucleotides
     99           (B) TYPE: Nucleic acid
    100           (C) STRANDEDNESS: Single
    101           (D) TOPOLOGY: Linear
W--> 102    (ii) MOLECULE TYPE: Primer for HIV-I DNA
    103   (iii) HYPOTHETICAL: No
    104    (iv) ANTI-SENSE: No
    105    (vi) ORIGINAL SOURCE:
    106   (vii) IMMEDIATE SOURCE:
    107     (x) PUBLICATION INFORMATION:
    108    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
    110 AGATGCTGTT GCGCCTCAAT AGCCCTCA  28
    112 (2) INFORMATION FOR SEQ ID NO: 5:
    113      (i) SEQUENCE CHARACTERISTICS:
    114           (A) LENGTH: 26 nucleotides
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/675,828

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TIME: 11:01:16

Input Set : C:\PAOLA\09675828.txt
Output Set: C:\CRF3\05312001\I675828.raw

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     116           (C) STRANDEDNESS: Single
     117           (D) TOPOLOGY: Linear
W--> 118      (ii) MOLECULE TYPE: Primer for HIV-I DNA
     119     (iii) HYPOTHETICAL: No
     120      (iv) ANTI-SENSE: No
     121      (vi) ORIGINAL SOURCE:
     122     (vii) IMMEDIATE SOURCE:
     123       (x) PUBLICATION INFORMATION:
     124      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
     126 CTTGGTTCTC TCATCTGGCC TGGTGC  26
     130 (2) INFORMATION FOR SEQ ID NO: 6:
     131       (i) SEQUENCE CHARACTERISTICS:
     132           (A) LENGTH: 28 nucleotides
     133           (B) TYPE: Nucleic acid
     134           (C) STRANDEDNESS: Single
     135           (D) TOPOLOGY: Linear
W--> 136      (ii) MOLECULE TYPE: Probe for HIV-I DNA
     137     (iii) HYPOTHETICAL: No
     138      (iv) ANTI-SENSE: No
     139      (vi) ORIGINAL SOURCE:
     140     (vii) IMMEDIATE SOURCE:
     141       (x) PUBLICATION INFORMATION:
     142      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
     144   GAGACCATCA ATGAGGAAGC TGCAGAAT  28
     146 (2) INFORMATION FOR SEQ ID NO: 7:
     147       (i) SEQUENCE CHARACTERISTICS:
     148           (A) LENGTH: 28 nucleotides
     149           (B) TYPE: Nucleic acid
     150           (C) STRANDEDNESS: Single
     151           (D) TOPOLOGY: Linear
W--> 152      (ii) MOLECULE TYPE: Probe for HIV-I DNA
     153     (iii) HYPOTHETICAL: No
     154      (iv) ANTI-SENSE: No
     155      (vi) ORIGINAL SOURCE:
     156     (vii) IMMEDIATE SOURCE:
     157       (x) PUBLICATION INFORMATION:
     158      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
     160 GTGCAGCAGC AGAACAATTT GCTGAGGG  28
     164 (2) INFORMATION FOR SEQ ID NO: 8:
     165       (i) SEQUENCE CHARACTERISTICS:
     166           (A) LENGTH: 30 nucleotidses
     167           (B) TYPE: Nucleic acid
     168           (C) STRANDEDNESS: Single
     169           (D) TOPOLOGY: Linear
W--> 170      (ii) MOLECULE TYPE: Nonsense probe
     171     (iii) HYPOTHETICAL: No
     172      (iv) ANTI-SENSE: No
     173      (vi) ORIGINAL SOURCE:
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(vii) IMMEDIATE SOURCE:
(x) PUBLICATION INFORMATION:
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
GGTGTCACCC CCAGAGTCCC CTGTACCCGC 30
(2) INFORMATION FOR SEQ ID NO: 9:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 41 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
W--> **(ii) MOLECULE TYPE: Oligonucleotide from HIV-I DNA**
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE:
(vii) IMMEDIATE SOURCE:
(x) PUBLICATION INFORMATION:
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
ATCCTGGGAT TAAATAAAAT AGTAAGAATG TATAGCCCTA C 41
(2) INFORMATION FOR SEQ ID NO: 10:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
W--> **(ii) MOLECULE TYPE: Primer for hCMV DNA**
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE:
(vii) IMMEDIATE SOURCE:
(x) PUBLICATION INFORMATION:
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
TGCACTGCCA GGTGCTTCGG CTCAT 25
(2) INFORMATION FOR SEQ ID NO: 11:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 25 nucleotides
(B) TYPE: Nucleic acid
(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear
W--> **(ii) MOLECULE TYPE: Primer for hCMV DNA**
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE:
(vii) IMMEDIATE SOURCE:
(x) PUBLICATION INFORMATION:
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
CACCACGCAG CGGCCCTTGA TGTTT 25
(2) INFORMATION FOR SEQ ID NO: 12:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 nucleotides

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Input Set : C:\PAOLA\09675828.txt
Output Set: C:\CRF3\05312001\I675828.raw

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      234           (B) TYPE: Nucleic acid
      235           (C) STRANDEDNESS: Single
      236           (D) TOPOLOGY: Linear
W--> 237      (ii) MOLECULE TYPE: Probe for hCMV DNA
      238     (iii) HYPOTHETICAL: No
      239      (iv) ANTI-SENSE: No
      240      (vi) ORIGINAL SOURCE:
      241     (vii) IMMEDIATE SOURCE:
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      248      (i) SEQUENCE CHARACTERISTICS:
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      250           (B) TYPE: Nucleic acid
      251           (C) STRANDEDNESS: Single
      252           (D) TOPOLOGY: Linear
W--> 253      (ii) MOLECULE TYPE: Primer for HIV-I DNA
      254     (iii) HYPOTHETICAL: No
      255      (iv) ANTI-SENSE: No
      256      (vi) ORIGINAL SOURCE:
      257     (vii) IMMEDIATE SOURCE:
      258       (x) PUBLICATION INFORMATION:
      259      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
      261 CCTGCTATGT CACTTCCCCT TGGTTCTCTC  30
      265 (2) INFORMATION FOR SEQ ID NO: 14:
      266      (i) SEQUENCE CHARACTERISTICS:
      267           (A) LENGTH: 27 nucleotides
      268           (B) TYPE: Nucleic acid
      269           (C) STRANDEDNESS: Single
      270           (D) TOPOLOGY: Linear
W--> 271      (ii) MOLECULE TYPE: Primer for HIV-II DNA
      272     (iii) HYPOTHETICAL: No
      273      (iv) ANTI-SENSE: No
      274      (vi) ORIGINAL SOURCE:
      275     (vii) IMMEDIATE SOURCE:
      276       (x) PUBLICATION INFORMATION:
      277      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
      279 AAGTAGACCA ACAGCACCAC CTAGCGG   27
      281 (2) INFORMATION FOR SEQ ID NO: 15:
      282      (i) SEQUENCE CHARACTERISTICS:
      283           (A) LENGTH: 29 nucleotides
      284           (B) TYPE: Nucleic acid
      285           (C) STRANDEDNESS: Single
      286           (D) TOPOLOGY: Linear
W--> 287      (ii) MOLECULE TYPE: Primer for HIV-II DNA
      288     (iii) HYPOTHETICAL: No
      289      (iv) ANTI-SENSE: No
      290      (vi) ORIGINAL SOURCE:
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VERIFICATION SUMMARY DATE: 05/31/2001
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Input Set : **C:\PAOLA\09675828.txt**
Output Set: **C:\CRF3\05312001\I675828.raw**

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L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:12 M:259 W: Allowed number of lines exceeded, (ii) TITLE OF INVENTION:
L:56 M:246 W: Invalid value of Alpha Sequence Header Field, [FEATURE:], SeqNo=1
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VERIFICATION SUMMARY DATE: 05/31/2001
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Input Set : **C:\PAOLA\09675828.txt**
Output Set: **C:\CRF3\05312001\I675828.raw**

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Input Set : **C:\PAOLA\09675828.txt**
Output Set: **C:\CRF3\05312001\I675828.raw**

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L:1133 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=64
L:1155 M:246 W: Invalid value of Alpha Sequence Header Field, [FEATURE:], SeqNo=65
L:1149 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=65